

1, characterized in that the sending side transmits said service structure information and reference information before transmission of said contents and that the receiving side receives and stores said service structure information and  
5 reference information and uses the information for management of the storage of contents to be received later.

3. A storage-based broadcast system according to claim 1, characterized in that the sending side transmits said reference information before transmission of said contents and  
10 transmits said service structure information after transmission of said contents and that the receiving side combines said reference information that has been stored and said service structure information that has been received later and uses the information for management of the storage of said contents.

15 4. A storage-based broadcast system according to claim 1, characterized in that said contents contains non-stream format data contents.

5. A storage-based broadcast system according to claim 1 or 4, characterized in that said contents contains stream format  
20 AV data and that said AV data is converted to file format on the receiving side and stored as AV contents.

6. A storage-based broadcast system according to claim 1, characterized in that said service structure information is transmitted via SI (Service Information).

25 7. A storage-based broadcast system according to claim

4, characterized in that said service structure information is transmitted as said SI by using the ERT (Event Relation Table)

8. A storage-based broadcast system according to claim 1, characterized in that the type information for representing 5 the meaning of the service structure information and for selecting the operation on the receiving side is appended to said service structure information.

9. A storage-based broadcast system according to claim 1, characterized in that said reference information is 10 transmitted via SI.

10. A storage-based broadcast system according to claim 9, characterized in that said reference information is transmitted as said SI by using a reference descriptor.

11. A storage-based broadcast system according to claim 15 1, characterized in that said receiving side exclusively manages the storage areas of said contents per service.

12. A storage-based broadcast system according to claim 1, characterized in that said receiving side manages the validity term of stored contents per service.

20 13. A storage-based broadcast system according to claim 1, characterized in that said receiving side manages the value of stored contents per service.

14. A storage-based broadcast system according to claim 1, characterized in that said sending side specifies a particular 25 service in said service structure information and that the

receiving side performs processing tailored to the contents related to the specified service.

15. A storage-based broadcast system according to claim 1, characterized in that said receiving side specifies a service 5 in said service structure information and stores only the contents related to the specified service.

16. A storage-based broadcast system according to claim 1, characterized in that said sending side appends an automatic storage flag to contents in said reference information and that 10 the receiving side stores or updates the contents with said automatic storage flag appended.

17. A storage-based broadcast system according to claim 1, characterized in that said sending side appends an automatic storage flag to contents in said reference information and 15 specifies a particular service in said service structure information and that the receiving side automatically stores or updates the contents with said automatic storage flag appended among the contents related to the specified service.

18. A storage-based broadcast system according to claim 20 1, characterized in that said sending side appends an automatic storage flag to contents in said reference information and that said receiving side specifies a service in said service structure information and automatically stores or updates the contents with said automatic storage flag appended among the contents 25 related to the specified service.

19. A storage-based broadcast system according to claim 16, 17 or 18, characterized in that said automatic storage flag is transmitted via SI.

20. A storage-based broadcast system according to claim 5 19, characterized in that an EIT (Event Information Table) is used to transmit said automatic storage flag as said SI.

21. A storage-based broadcast system according to claim 1, characterized in that said sending side specifies the relationship between the same contents in said service structure 10 information and that said receiving side avoids duplicated storage of the same contents based on said service structure information.

22. A transmitter of a storage-based digital broadcast system wherein contents transmitted from a sending side are 15 stored on a receiving side then reproduced, characterized in that said transmitter comprises

service structure information generating means for generating service structure information representing a relational structure between services provided by contents 20 providers,

reference information generating means for generating reference information for associating the contents with the service described in said service structure information,

service information adding means for adding said reference 25 information to service information, and

multiplexing/transmission means for multiplexing service information containing said reference information and said service structure information into contents and transmitting the resulting data.

5        23. A receiver of a storage-based digital broadcast system wherein contents transmitted from a sending side are stored on a receiving side then reproduced, characterized in that said receiver comprises

receiving/demultiplexing means for demultiplexing

10      contents, service structure information describing the relational structure between services provided by contents providers and service information containing reference information associating contents with the service described in said service structure information from received signals,

15      contents storage means for storing demultiplexed contents,

service structure storage means for storing demultiplexed service structure information,

service information storage means for storing said 20 demultiplexed service information, and

service management means for managing storage of said contents by using service structure information and reference information.

24. A receiver according to claim 23, characterized in  
25      that said receiver comprises automatic storage management means